

Fig. 1

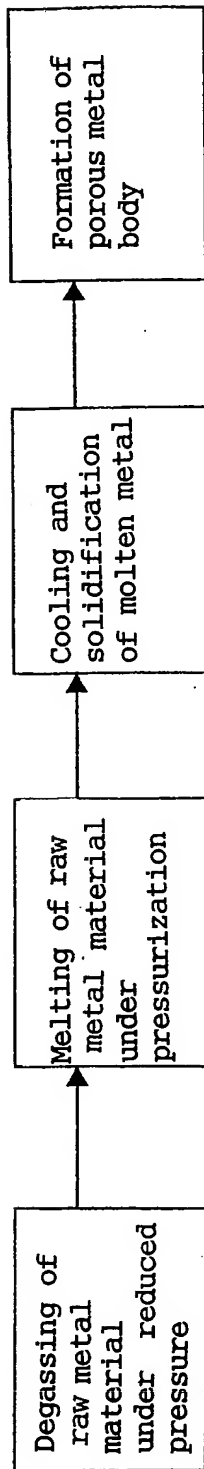
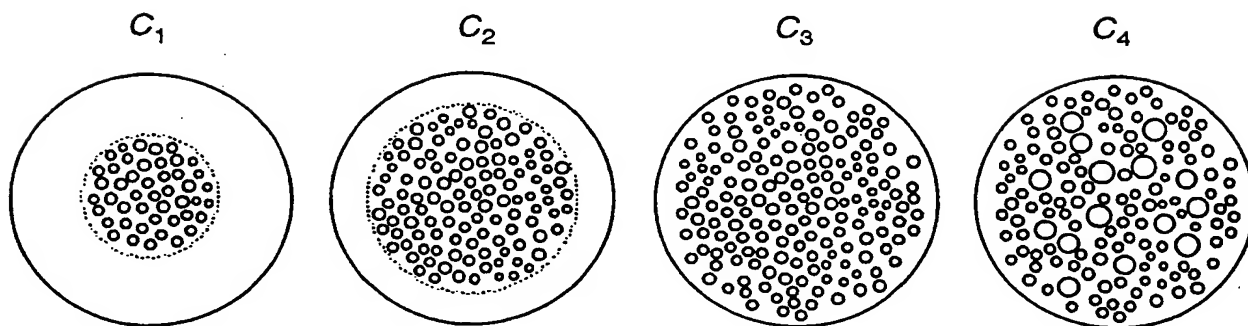
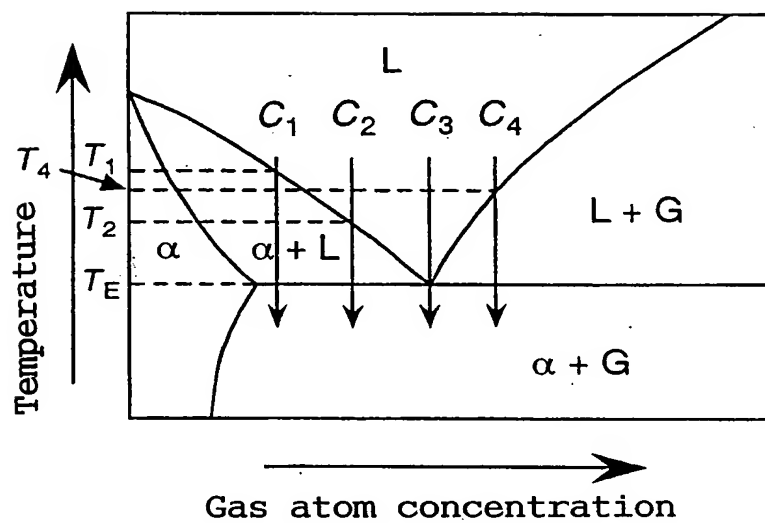
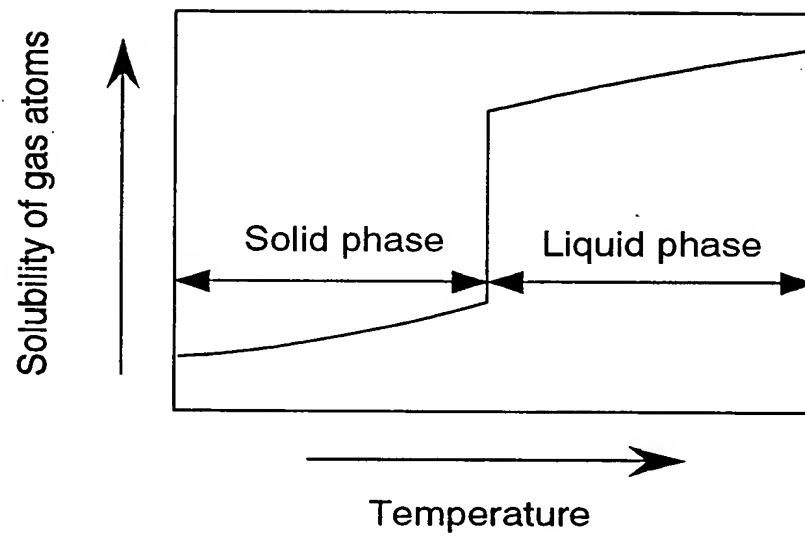


Fig. 2



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Fig. 3



Nitrogen solubility in iron

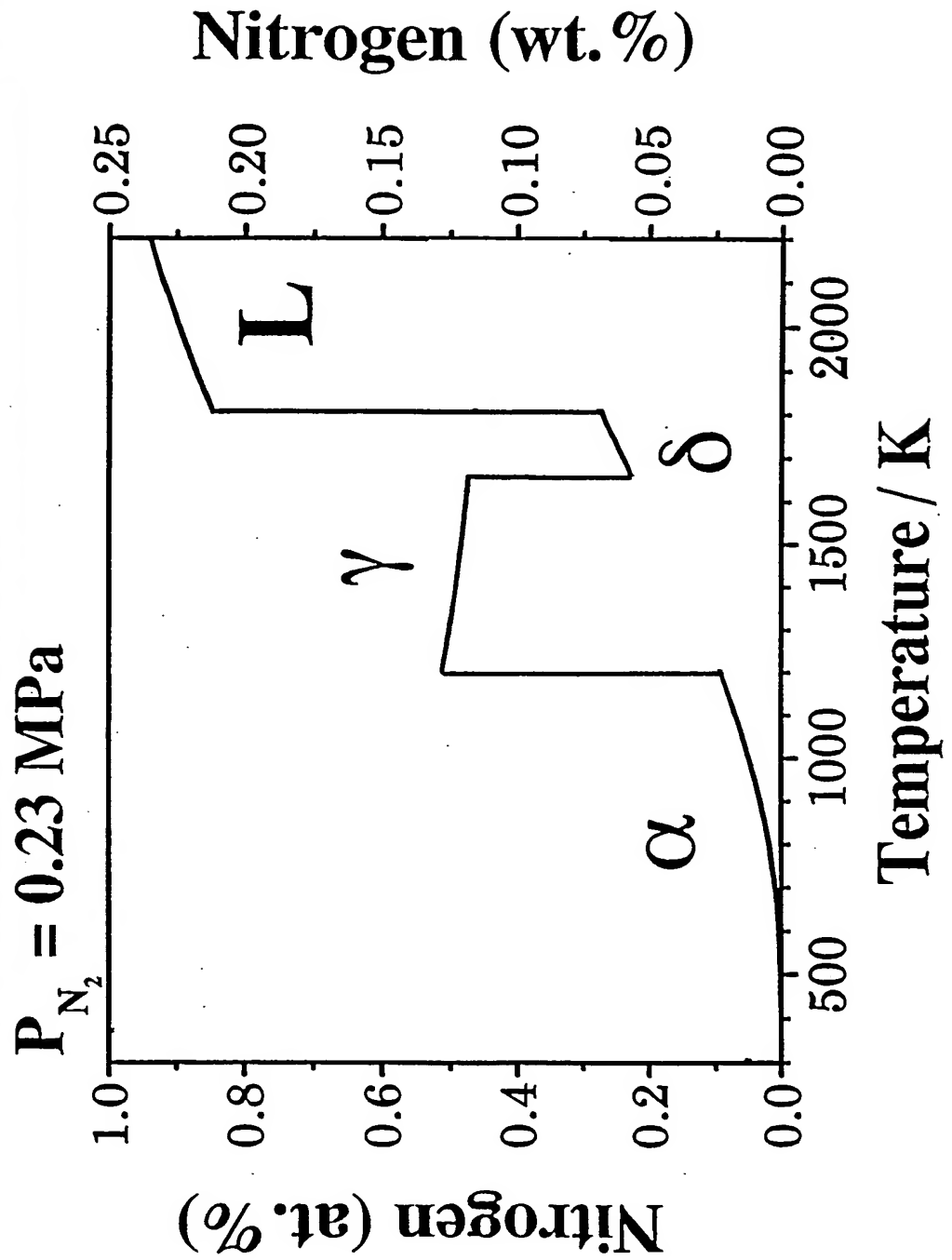
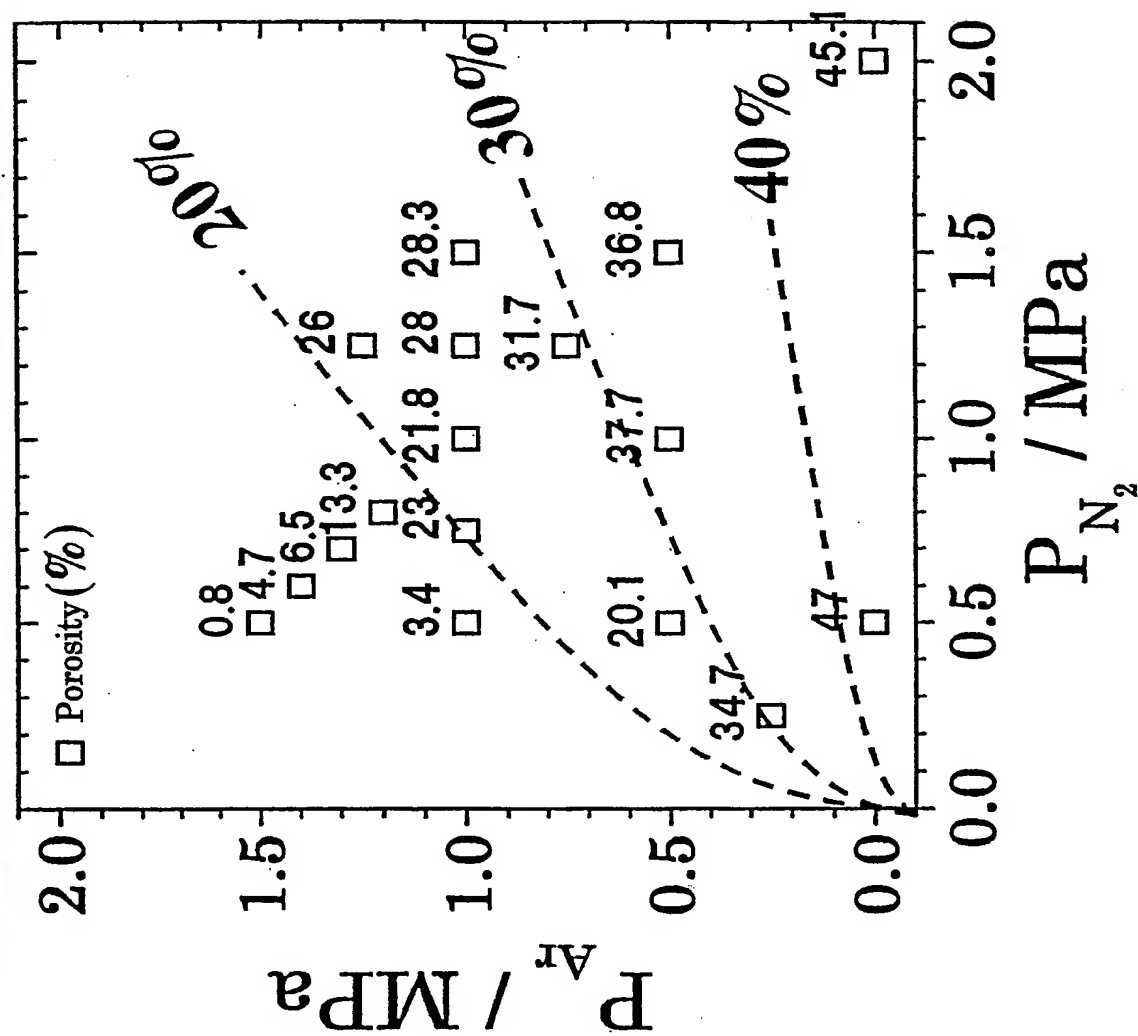


Fig. 4

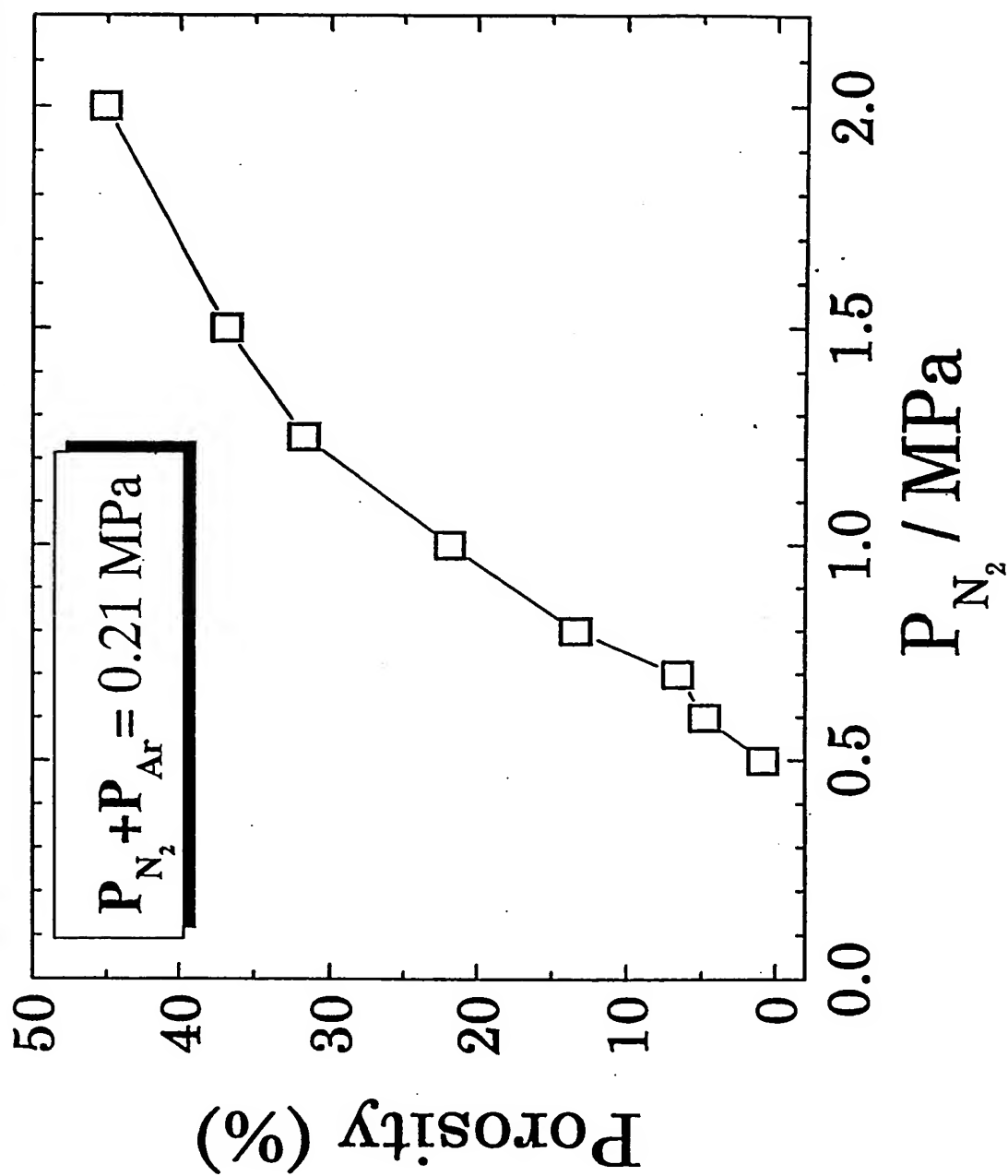
Fig. 5

Experimental results



Nitrogen gas pressure vs. porosity

Fig. 6



Nitrogen analysis results

Fig. 7

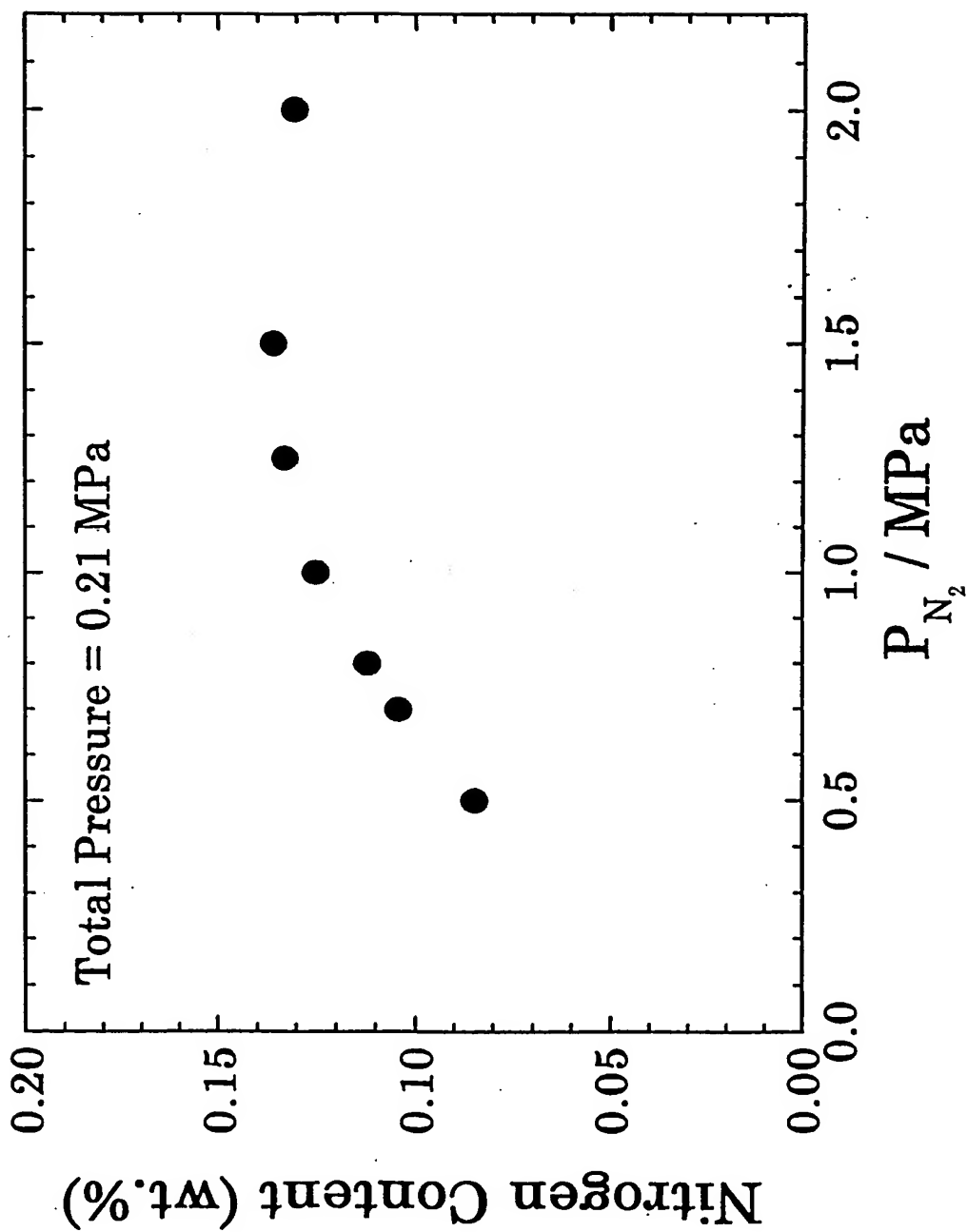


Fig. 8

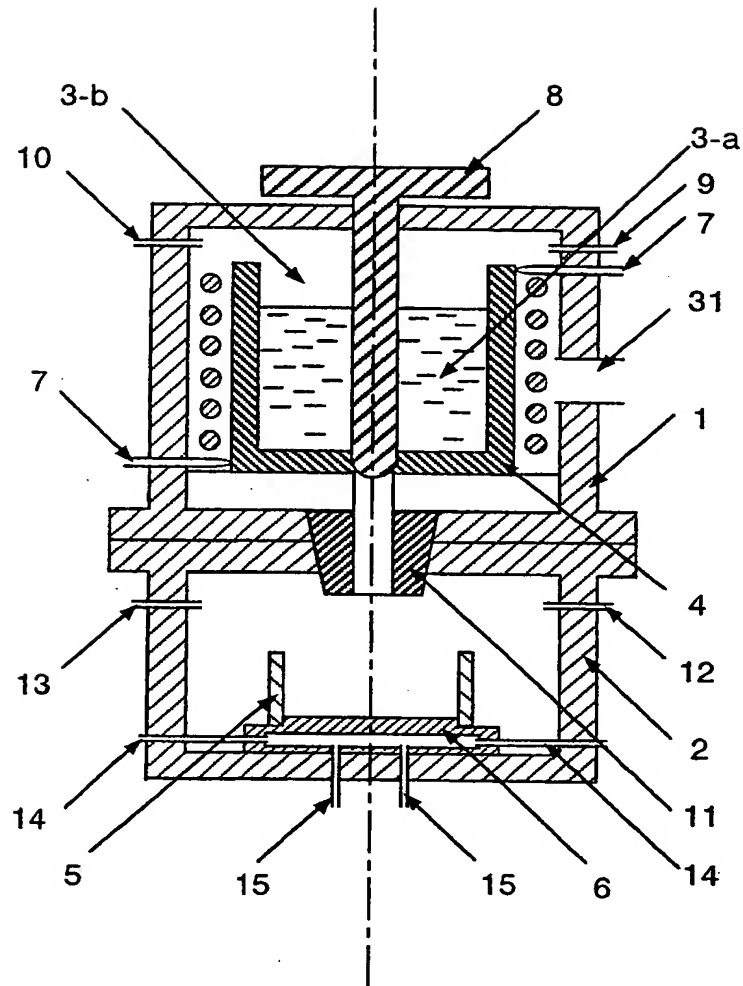


Fig. 9

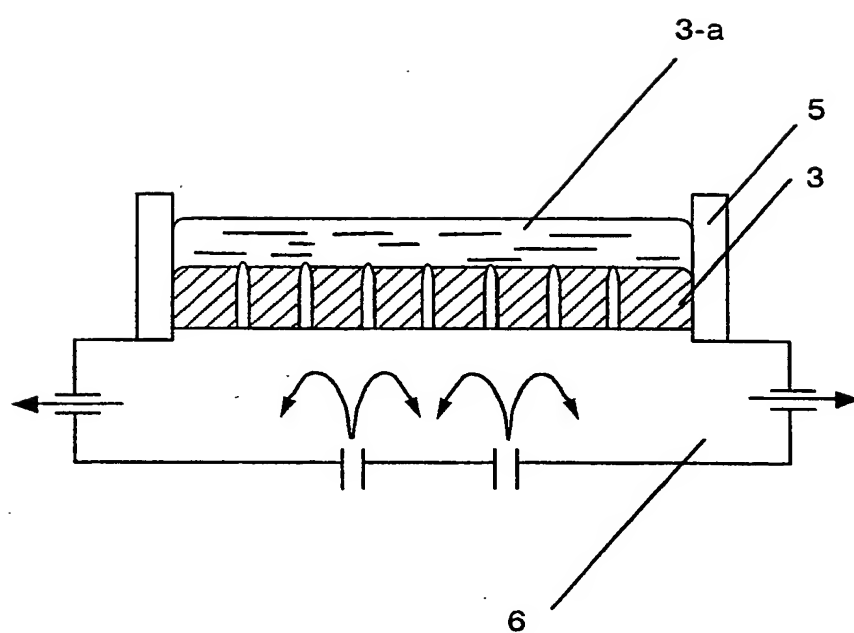


Fig. 10

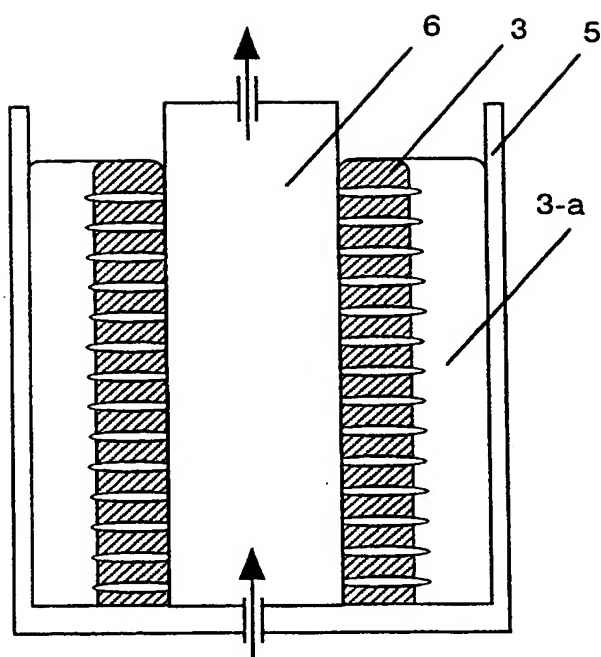


Fig. 11

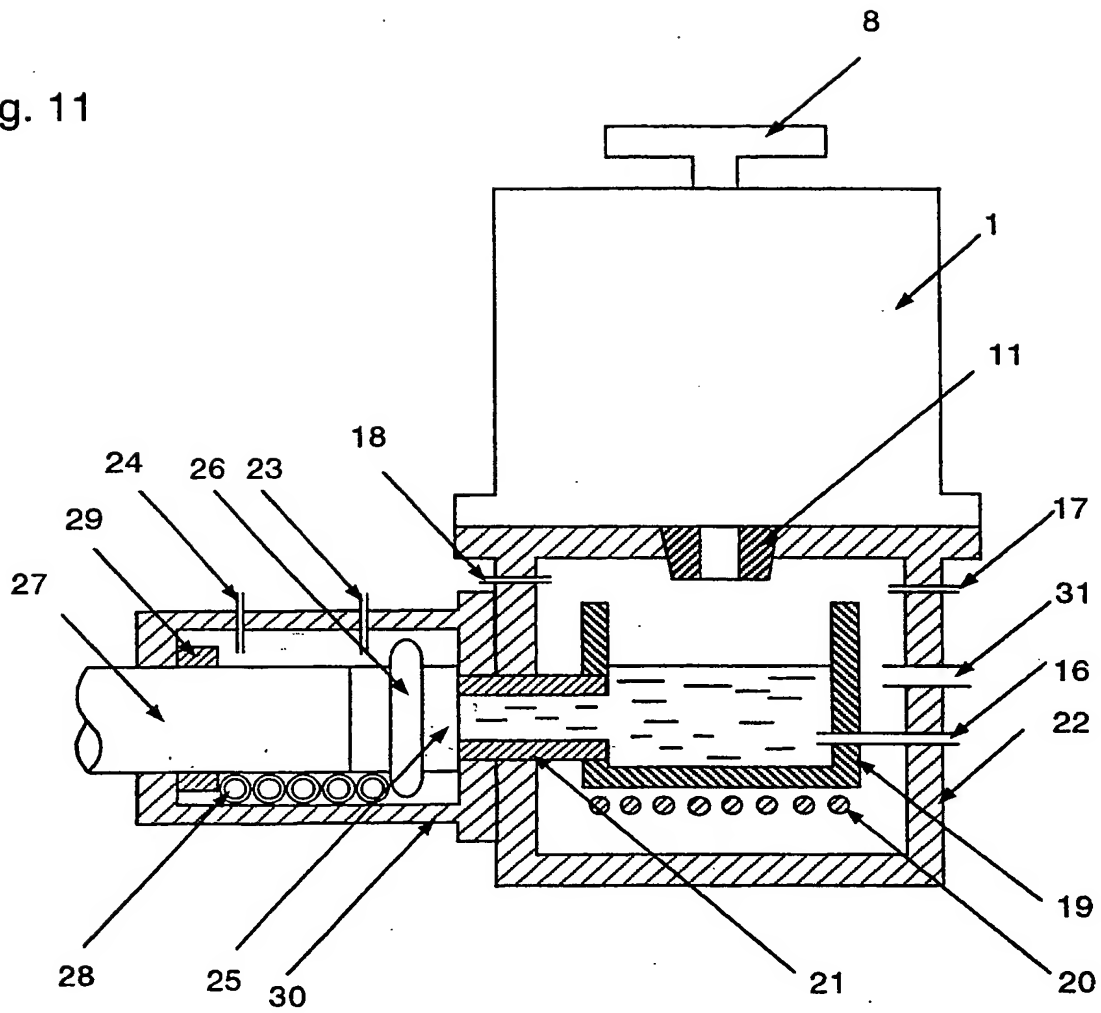


Fig. 12

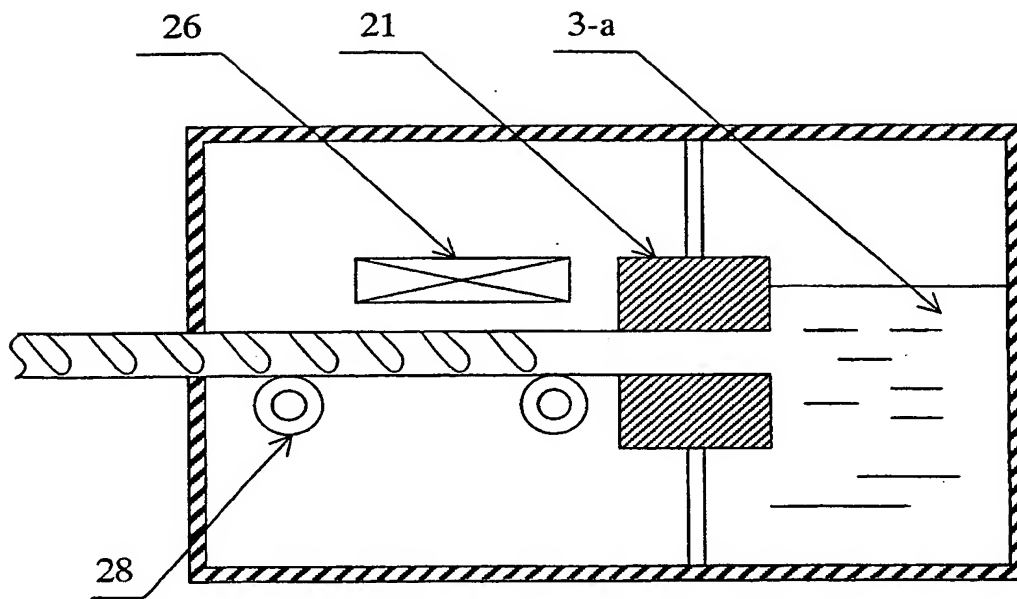
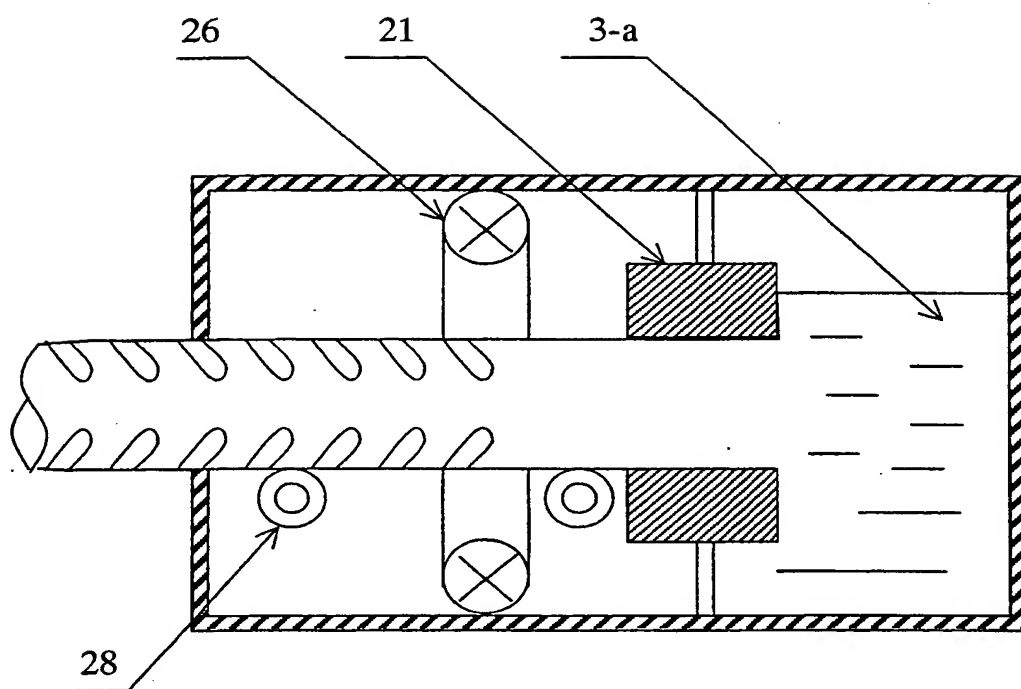
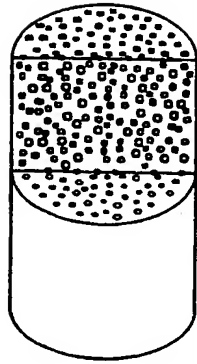


Fig. 13

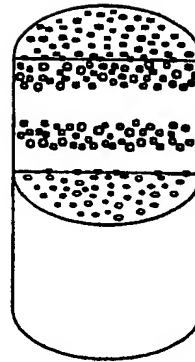


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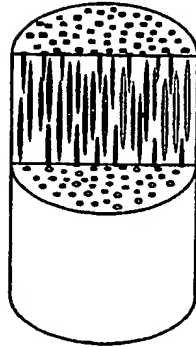
Fig. 14



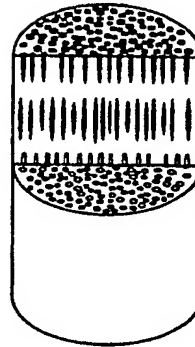
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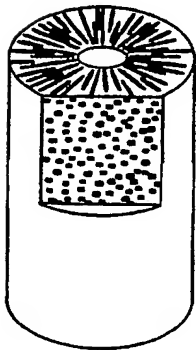
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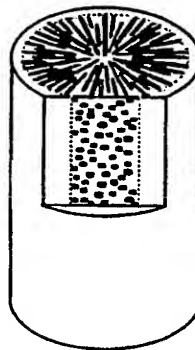
(c)



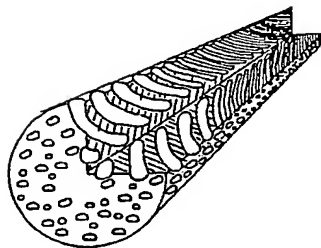
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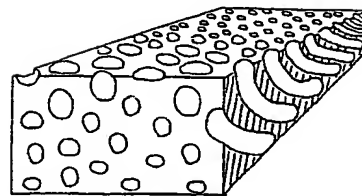
(e)



(f)

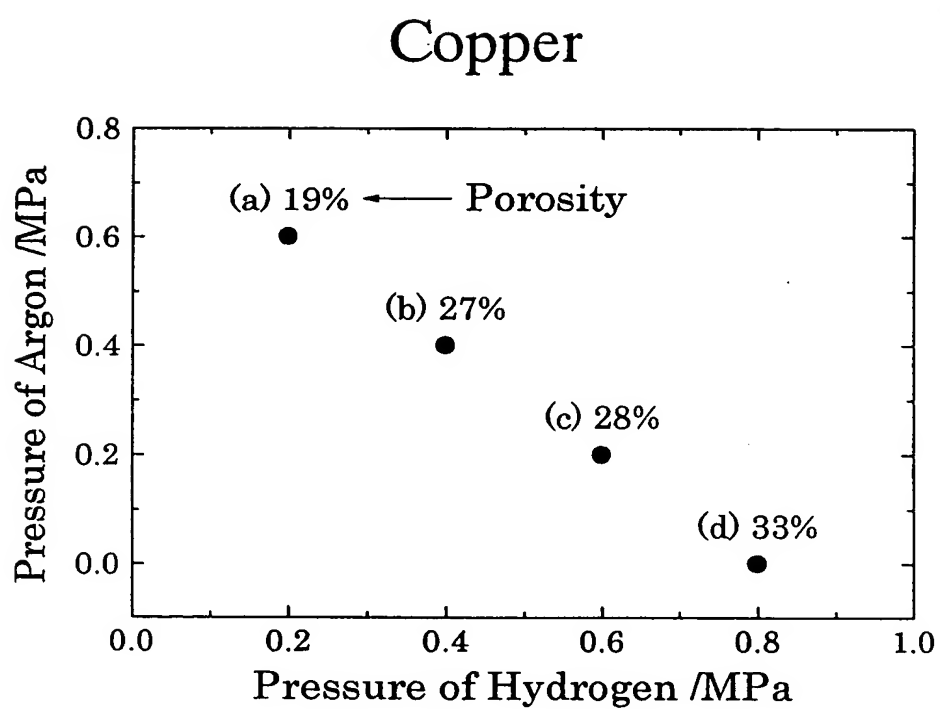


(g)



(h)

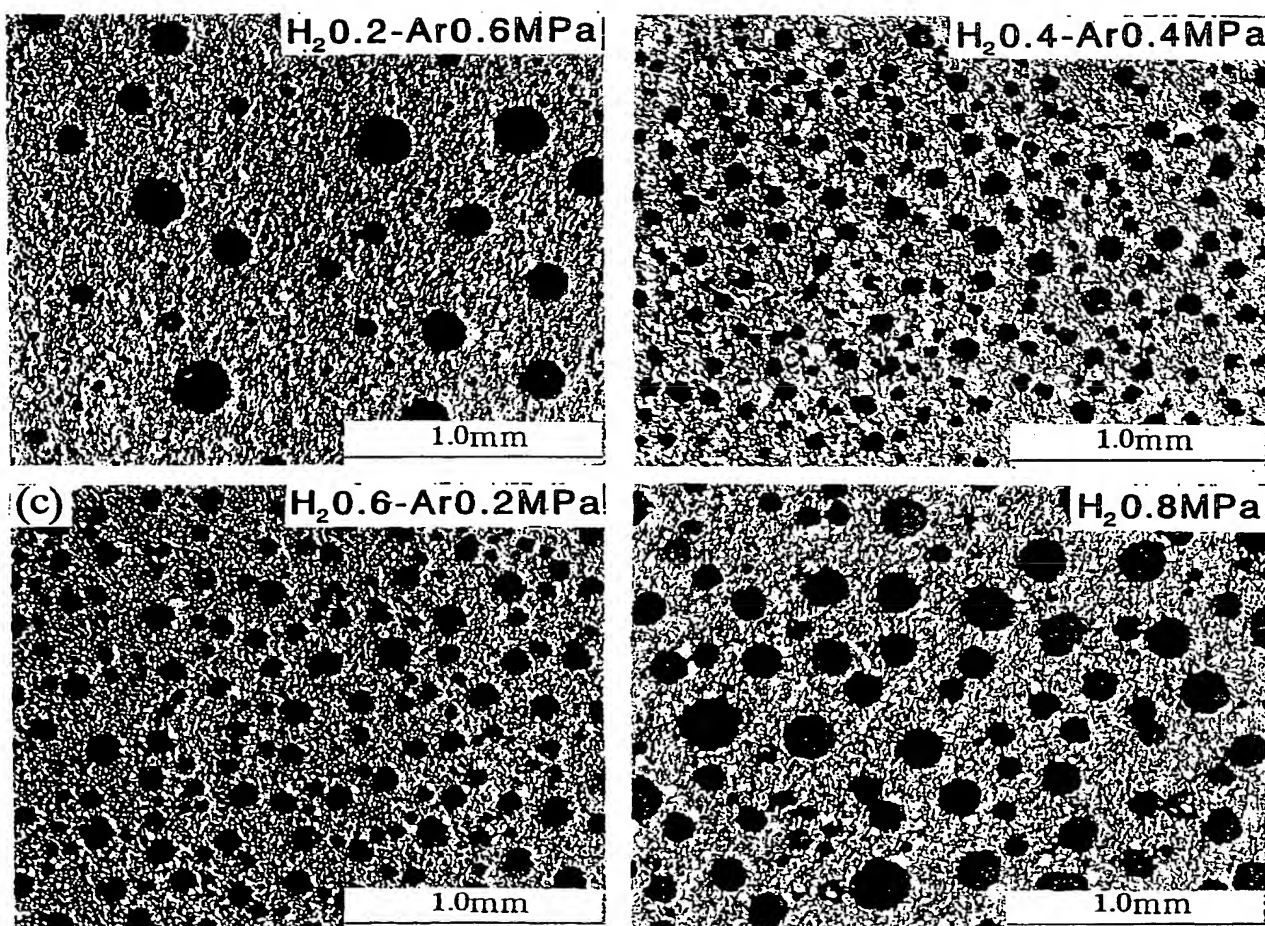
FIG. 15



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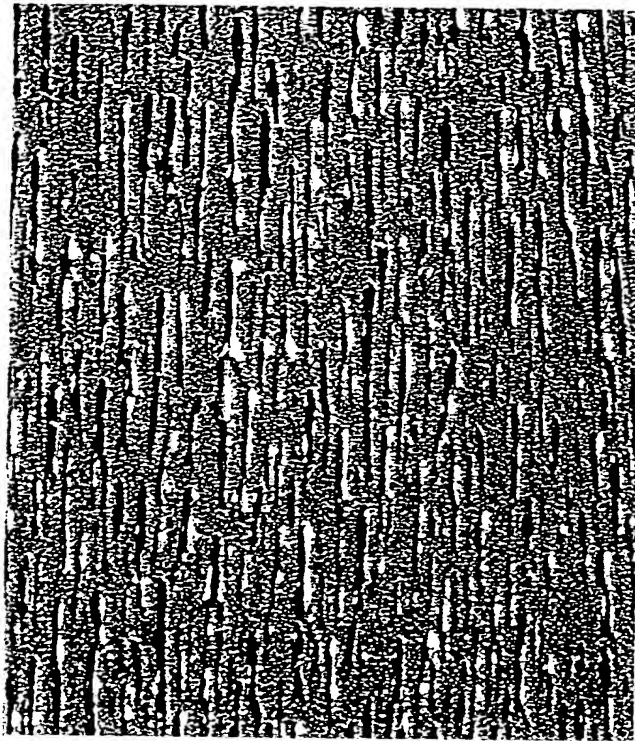
FIG. 16



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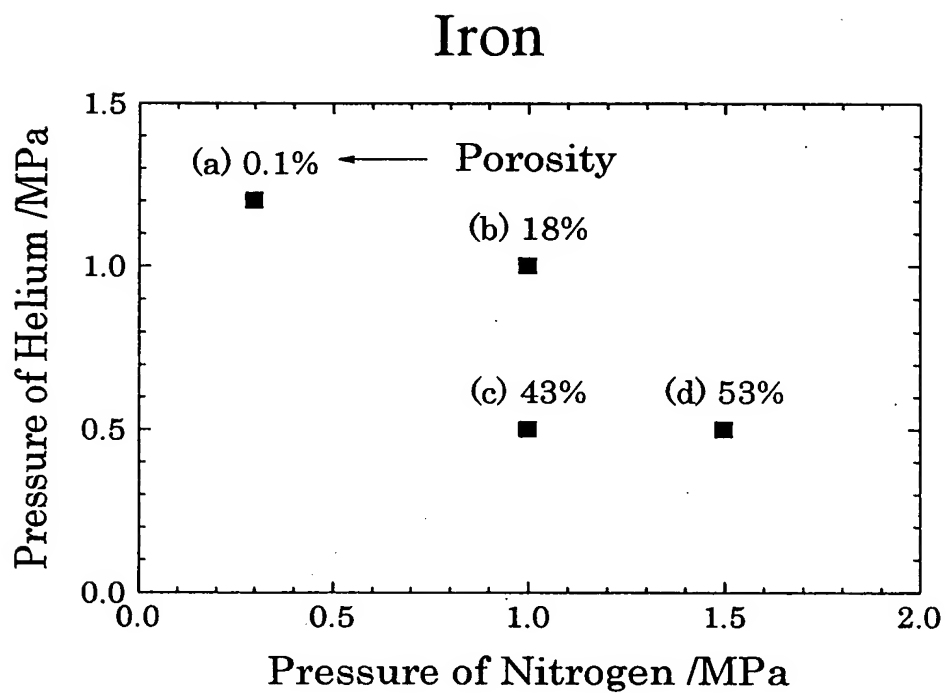
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FIG. 17



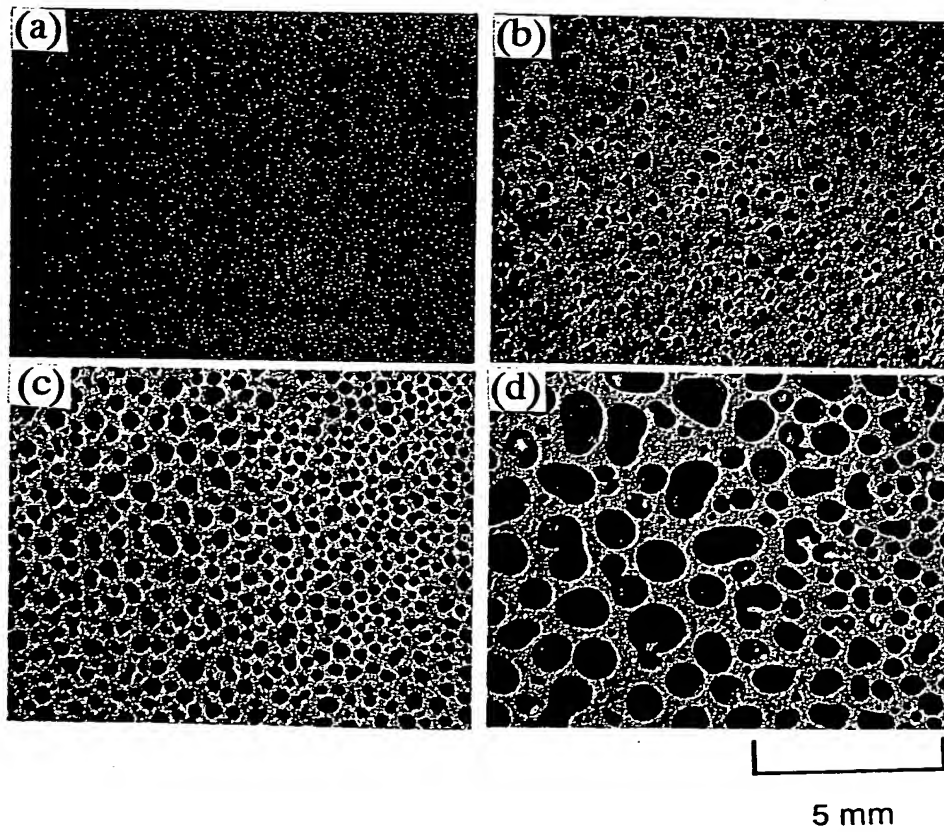
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FIG. 18



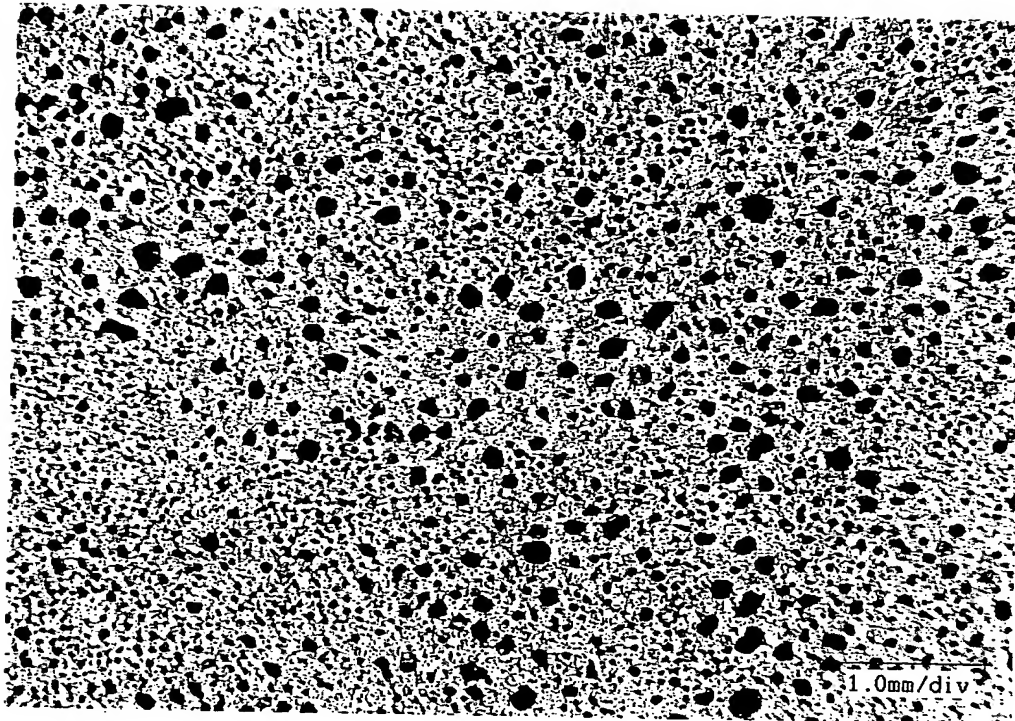
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FIG. 19



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FIG. 20

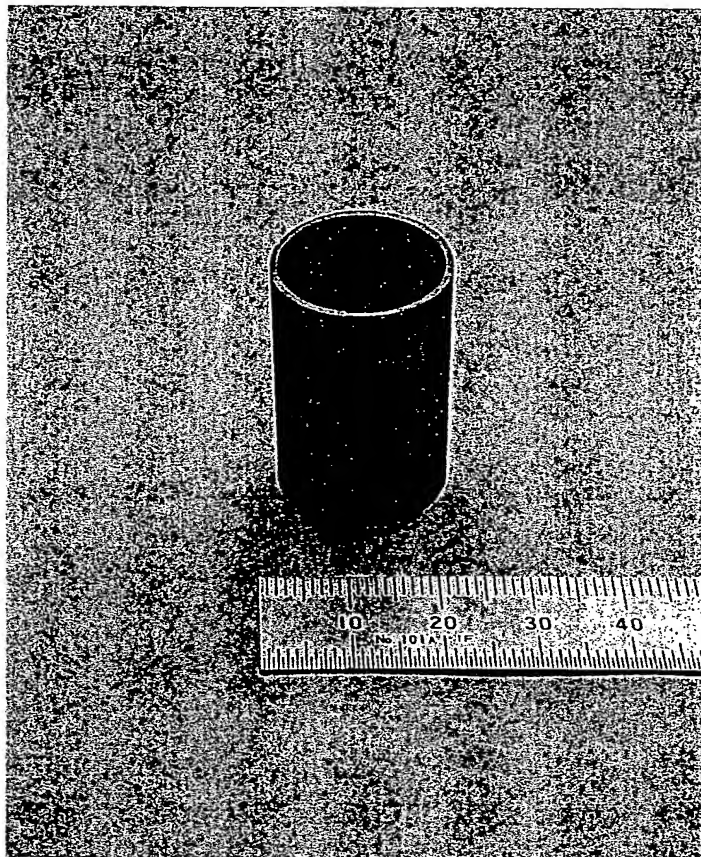


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FIG. 21

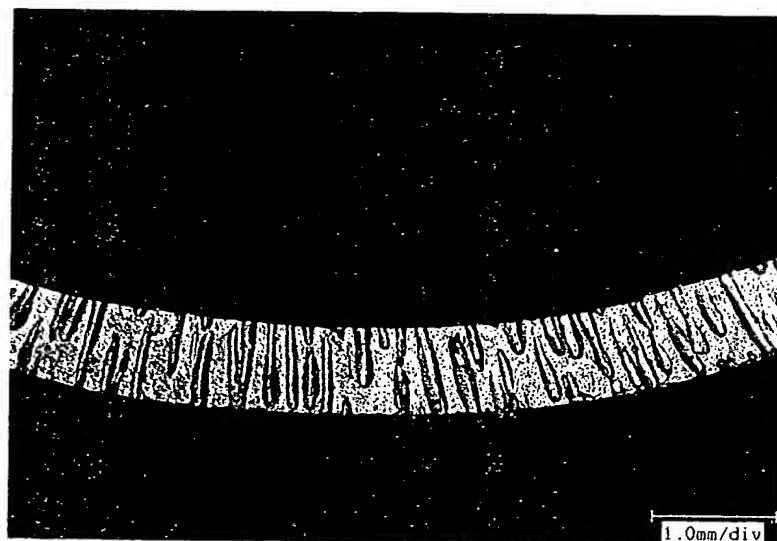


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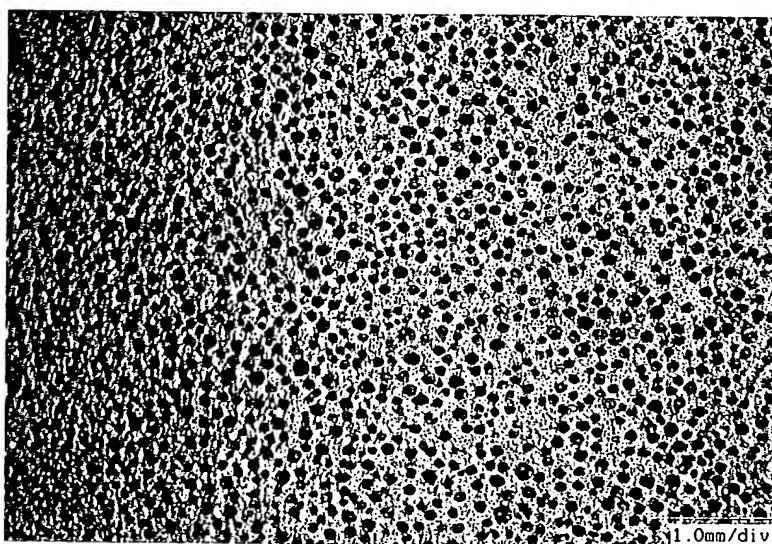
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FIG. 22



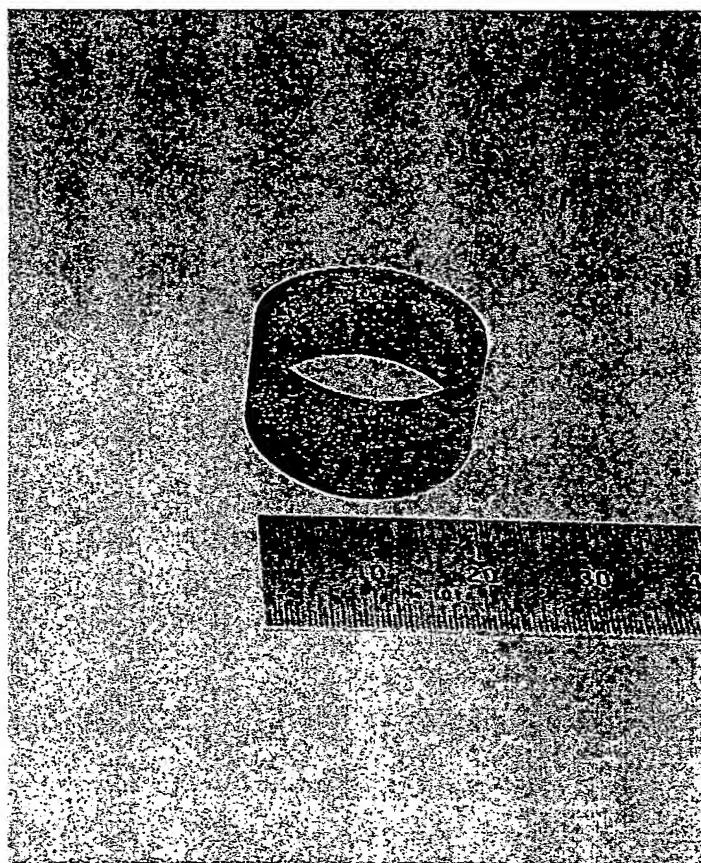
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FIG. 23



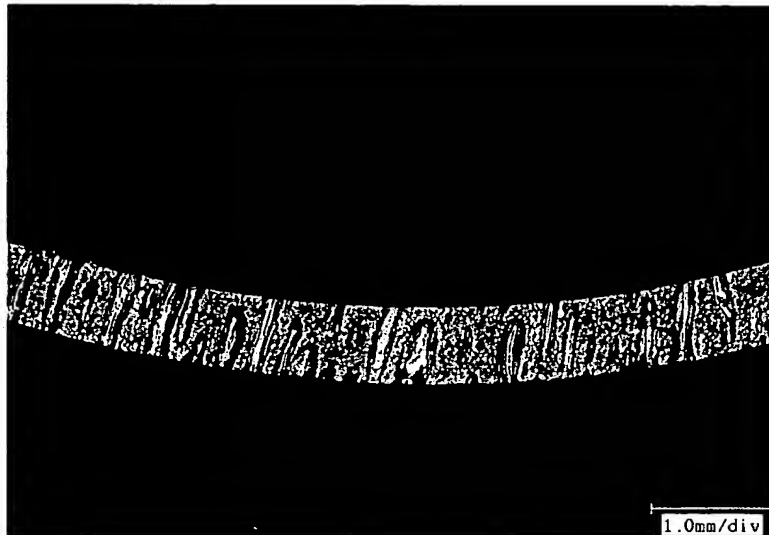
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FIG. 24



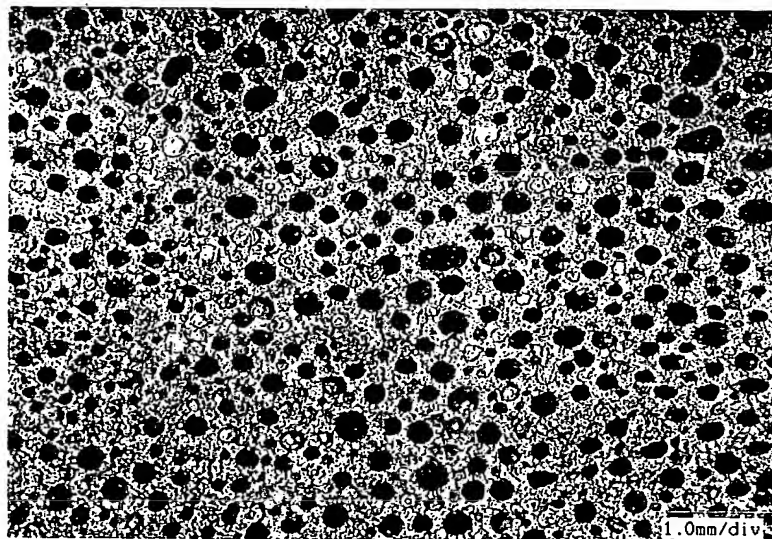
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FIG. 25



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FIG. 26

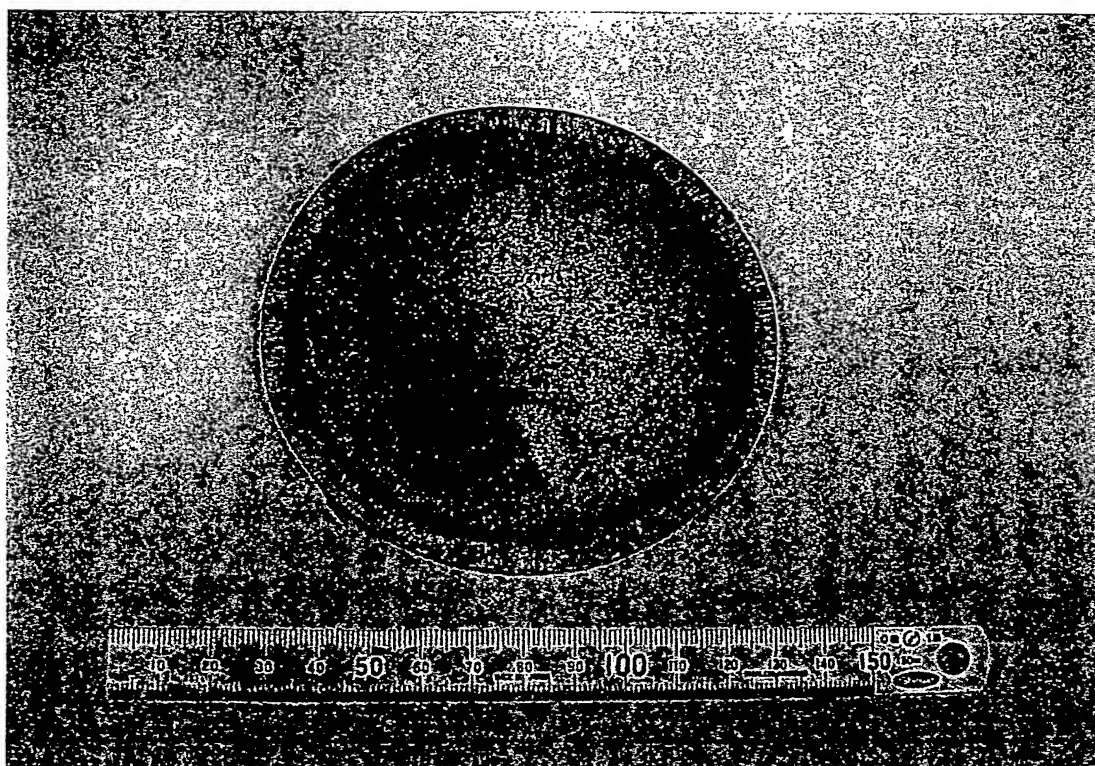


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FIG. 27



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